



**SITCO ANTENNAS**

PORTLAND, OREGON USA

**ASSEMBLY INSTRUCTION  
FOR  
MODEL: EM3-1-FM**

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## 1.1. GENERAL:

Your antenna should arrive packed in one box with the hardware strapped on outside. All elements, including the signal dipole, have smooth rounded ends to improve the signal to noise ratio. Only the highest quality aluminum alloy rod and seamless tubing is used in the manufacture of SITCO antennas. To insure a long lasting installation all steel mast, clamps, U-bolts and fasteners are zinc plated with chromate dip to withstand adverse weather conditions.

## 1.2. BOOM ASSEMBLY:

Insert, center and secure the reflector and the director elements in their proper position on the boom. Start from the end of the antenna boom, which is the end closest to the balun box, with the longest element and insert them in a decreasing length order, as you approach the front of the boom.

**NOTE: The antenna elements must be centered for the antenna to work properly.**

The SITCO wedge screw fasteners must be in place but loose when inserting elements. After inserting and positioning the elements, secure them by tightening the hex nut on the wedge screw fastener.

## 1.3. SIGNAL DIPOLE INSTALLATION:

Prepare the dipole for insertion by removing one of the curved elements. Also remove the dipole screw from the center of the element. Slide the end of the 3/8" rod into the below the balun box until balun is positioned over the screw hole in the boom. Reattach the curved element and insert the dipole screw into the boom directly below the balun and secure it tightly to the driven element. See Figure 1.

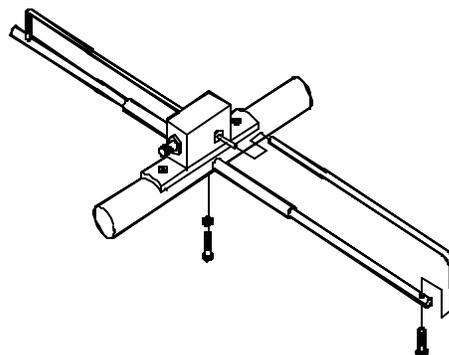


Figure 1



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## 1.4. ANTENNA MOUNTING:

Use long bolts provided to attach antenna boom to flat plate. Use flat washers on both sides and lock washer on the side with the nut. Center the boom in the channel and tighten the bolts firmly. Align the channel on the flat plate opposite the antenna with the mast and secure the U-bolts. Use flat washers and lock washers and tighten the u-bolts very securely. See Figure 2.

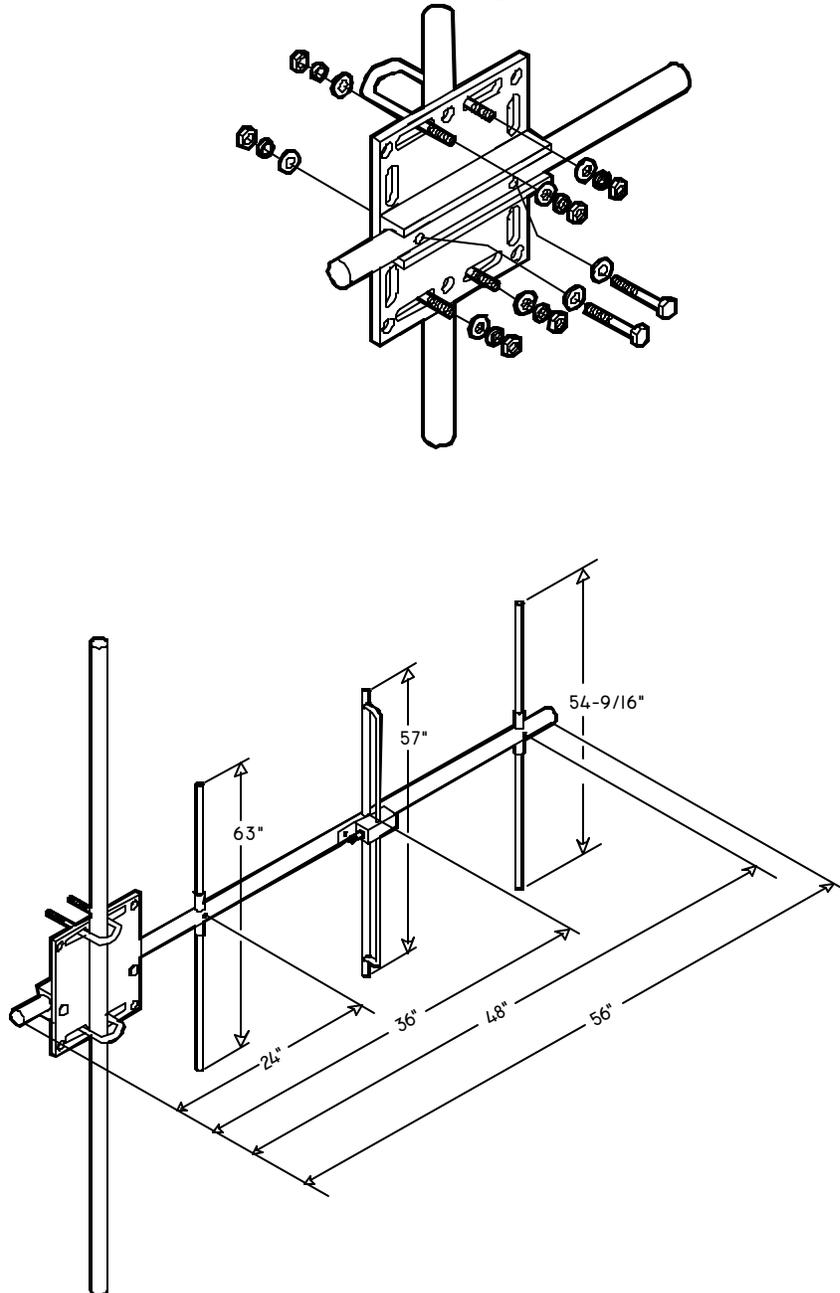


Figure 2